## GeoEngineering, Inc.

Consultants in Groundwater Control

100 Ford Rd. Denville, N.J. 07834 (201) 625 0700

April 25, 1989

M.A. Hanna Company 1301 E. Ninth Street Suite 3600 Cleveland, Ohio 44114-1829

ATTN: Richard E. Hahn

SUBJ: L.E. Carpenter, Wharton, New Jersey

1986 Administrative Consent Order

January through March 1989 Progress Report

## Gentlemen:

Per pargraph 35 of the 1986 Administrative Consent Order between L.E. Carpenter & Company and the NJDEP, the following progress report is submitted detailing the status of the activities at the former L.E. Carpenter, Wharton facility.

Between January 1 and March 31, the Auto-Skimmer recovered approximately 73.5 gallons from MW-10. A total of 4078.3 gallons of product have been recovered as of March 31, 1989.

Attached are the figures depicting contours for piezometric water level and the top of floating solvent elevations, and isopachs of solvent thickness for the months of January, February and March, 1989. A summary table for elevations of ground water, floating solvent and three locations on the Rockaway River, and for solvent thickness precedes each month's figures.

On February 27, 1989, groundwater samples were collected at five designated monitor wells. Enseco-Erco Laboratory of Cambridge, Massachusetts, was contracted for the analytical work. The results and laboratory QA/QC documentation are attached.

In accordance with M.A. Hanna's April 19, 1989 authorization, a multi-point skimming system will be installed in the near future. Recovery operations will be performed simultaneously at MW-6, MW-7 and MW-10.

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If you have any questions pertaining to the above, please do not hesitate to call.

Sincerely,

GEOENGINEERING, INC.

Mull h. Soull IV

William W. Dunnell IV Project Manager

WWD/ebt Attachment cc: T. Schwartz (5)

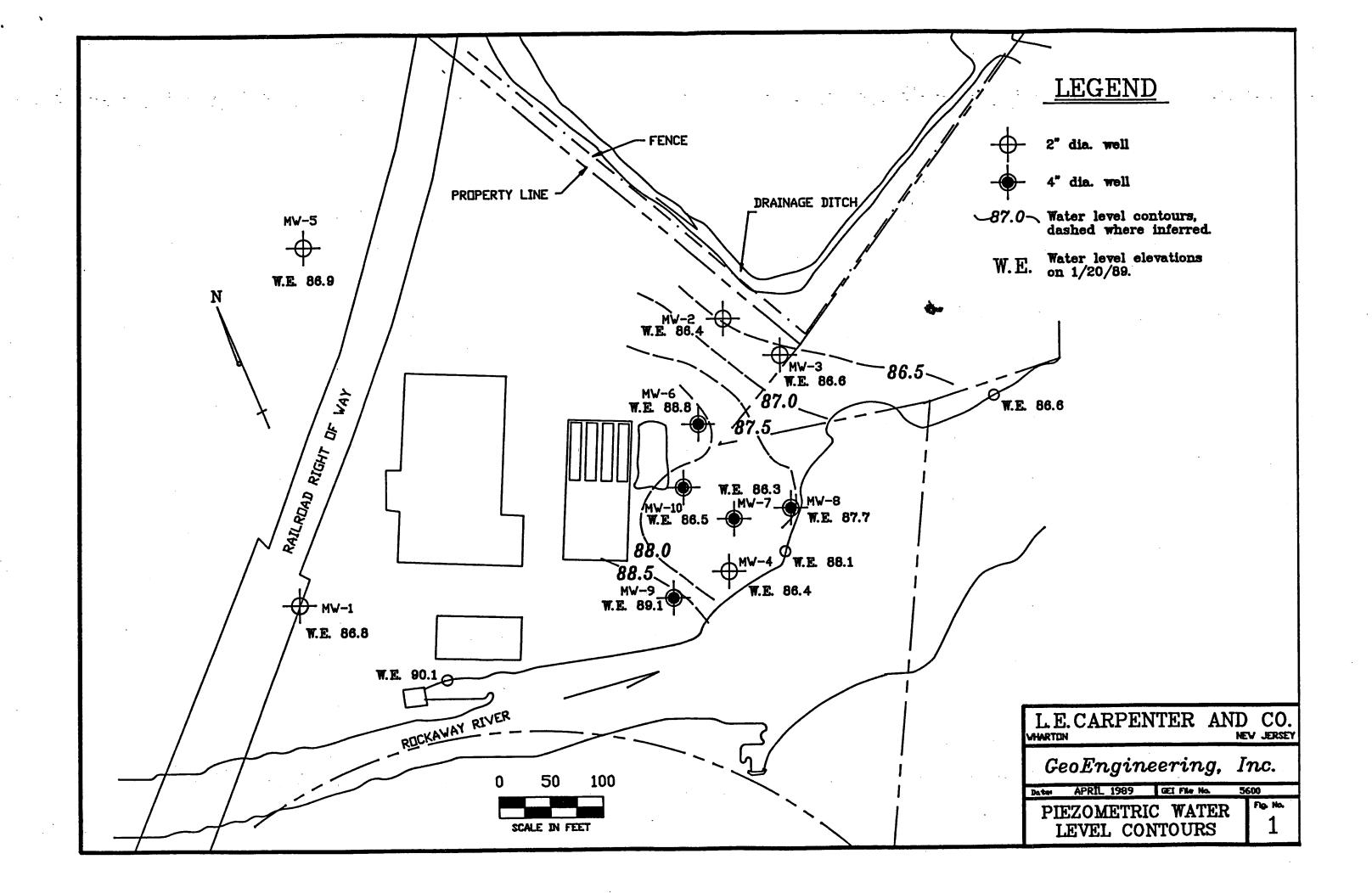
TABLE A: SOLVENT THICKNESS AND PIEZOMETRIC EVELATIONS ON 1/20/89

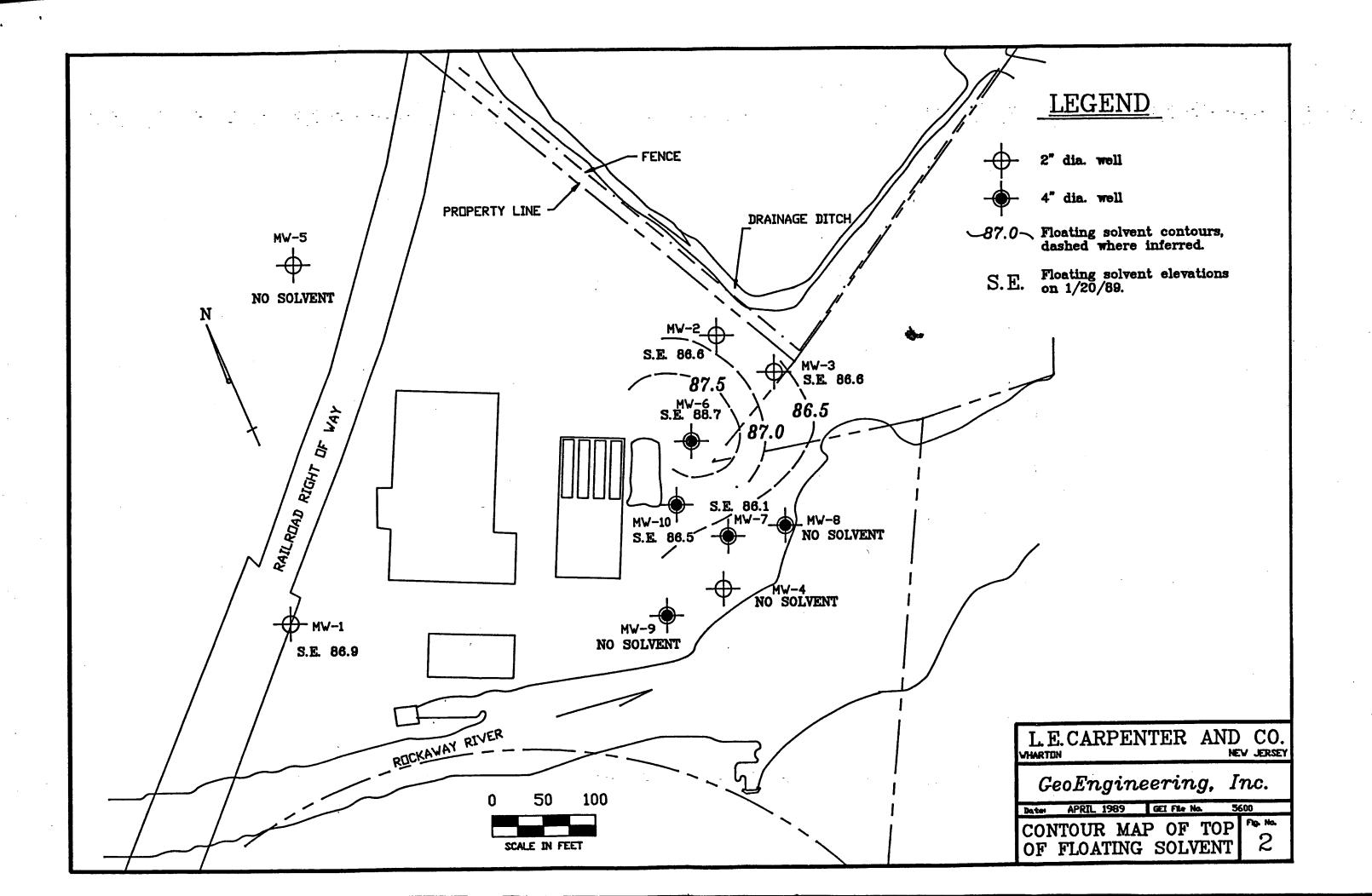
		MEASURED SOLVENT					
	PIEZOMETRIC	FLOATING SOLVENT	THICKNESS IN	CALCULATED FLOATING			
	SURFACE ELEVATION		SURFACE ELEVATION	MONITORING WELL	SOLVENT THICKNESS		
WELL NO.	(feet above MSL)	(feet above MSL)	(feet above MSL)	(feet)	(feet)		
1	86.8	(1)	86.9	1.43	0.21		
2	86.4	(1)	86.6	0.17	0.03		
3	86.6	(1)	85.6	0.49	0.07		
4	86.4	(1)	no solvent	0.00	0.00		
5	86.9	(1)	no solvent	0.00	0.00		
5	88.8	(2)	88.7	0.40	0.06		
7	86.3	(2)	86.1	1.39	0.21		
8	87.7	(3)	no solvent	0.00	0.00		
9	89.1	(3)	no solvent	0.00	0.00		
10	. 86.5	(2)	86.5	0.03	0.00		
DRAINAGE DITCH	90.7						
RIVER PT. 1	90.1						
RIVER PT. 2	88.1						
RIVER PT. 3	86.6				•		

N O T E S: (1) Depth to water measured inside GEOMON Groundwater Sampler/Piezometer (inlet screen is below solvent level)

<sup>(2)</sup> Calculated piezometric surface, assuming solvent specific gravity is 0.87.

<sup>(3)</sup> No solvent observed in monitoring well





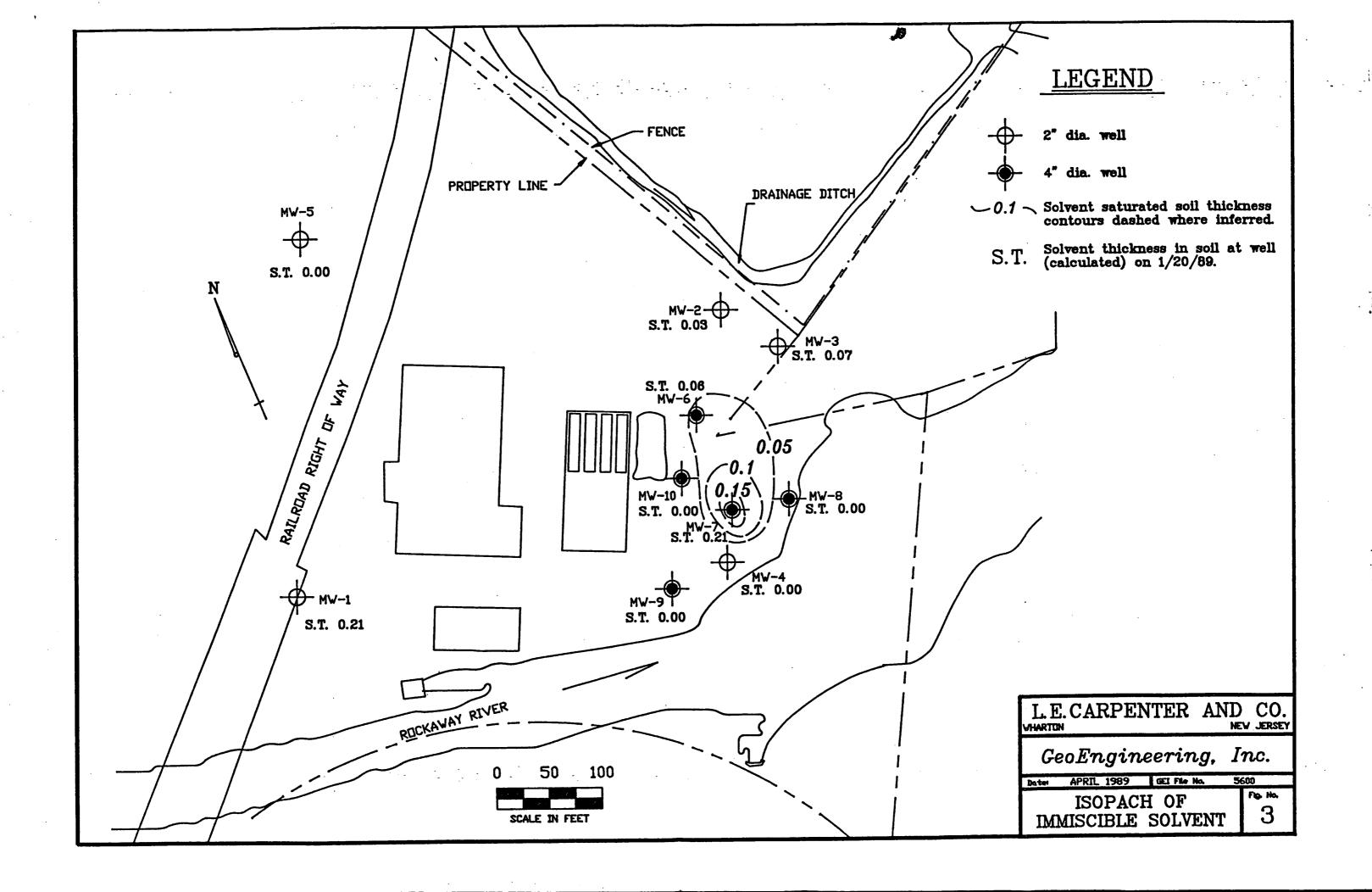


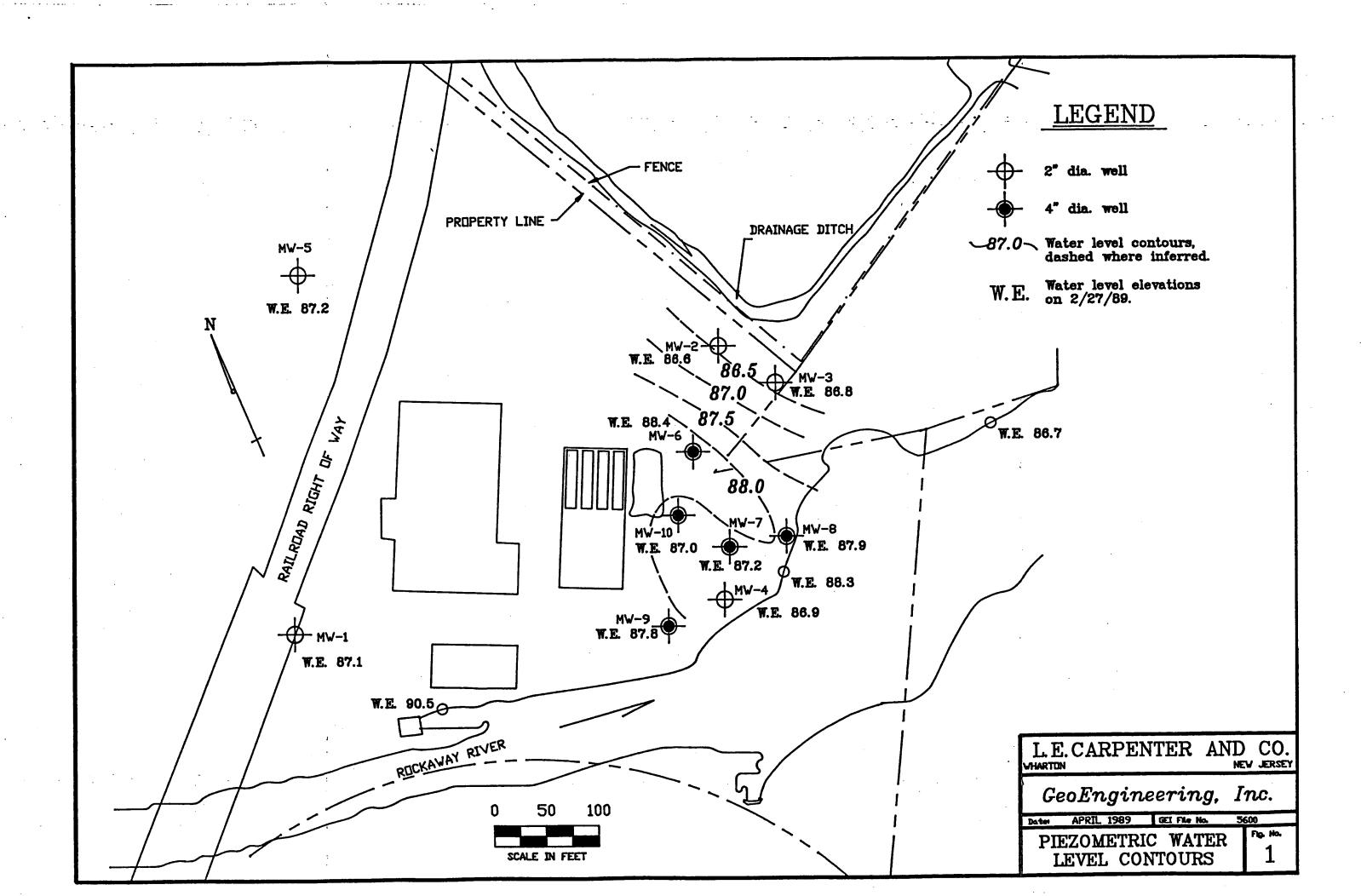
TABLE A: SOLVENT THICKNESS AND PIEZOMETRIC EVELATIONS ON 2/27/89

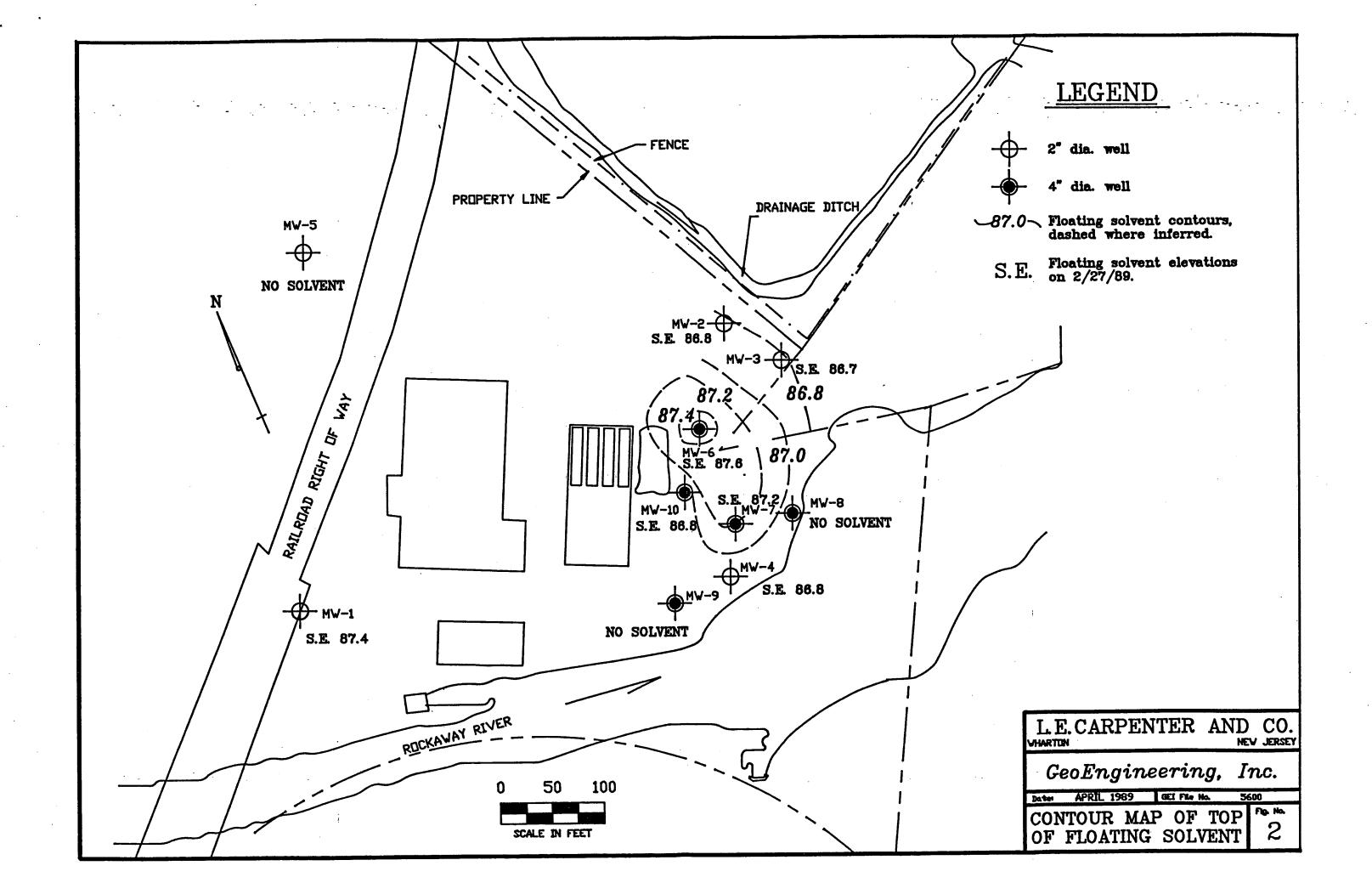
WELL NO.	PIEZOMETRIC SURFACE ELEVATION (feet above MSL)	<b>22623</b> 22	FLOATING SOLVENT SURFACE ELEVATION (feet aboye MSL)	MEASURED SOLVENT THICKNESS IN MONITORING WELL (feet)	CALCULATED FLOATING SOLVENT THICKNESS (feet)
1	87.1	(1)	87.4	1.09	0.16
2	85.6		86.8	0.27	0.04
3	86.8		86.7	0.49	0.07
4	86.9	(1)	86.8	0.06	0.01
5	87.2	(1)	no solvent	0.00	0.00
6	88.4	(2)	87.6	5. 41	0.81
7	87.2	(2)	87.2	0.13	0.02
8	87.9	(3)	no solvent	0.00	0.00
9	87.8	(3)	no solvent	0.00	0.00
10	87.0	(2)	86.8	1.10	0.15
DRAINAGE DITCH	30.8				
RIVER PT. 1	90.5				
RIVER PT. 2	88.3				
RIVER PT. 3	86.7				

N O T E S: (1) Depth to water measured inside GEOMON Groundwater Sampler/Piezometer (inlet screen is below solvent level)

<sup>(2)</sup> Calculated piezometric surface, assuming solvent specific gravity is 0.87.

<sup>(3)</sup> No solvent observed in monitoring well





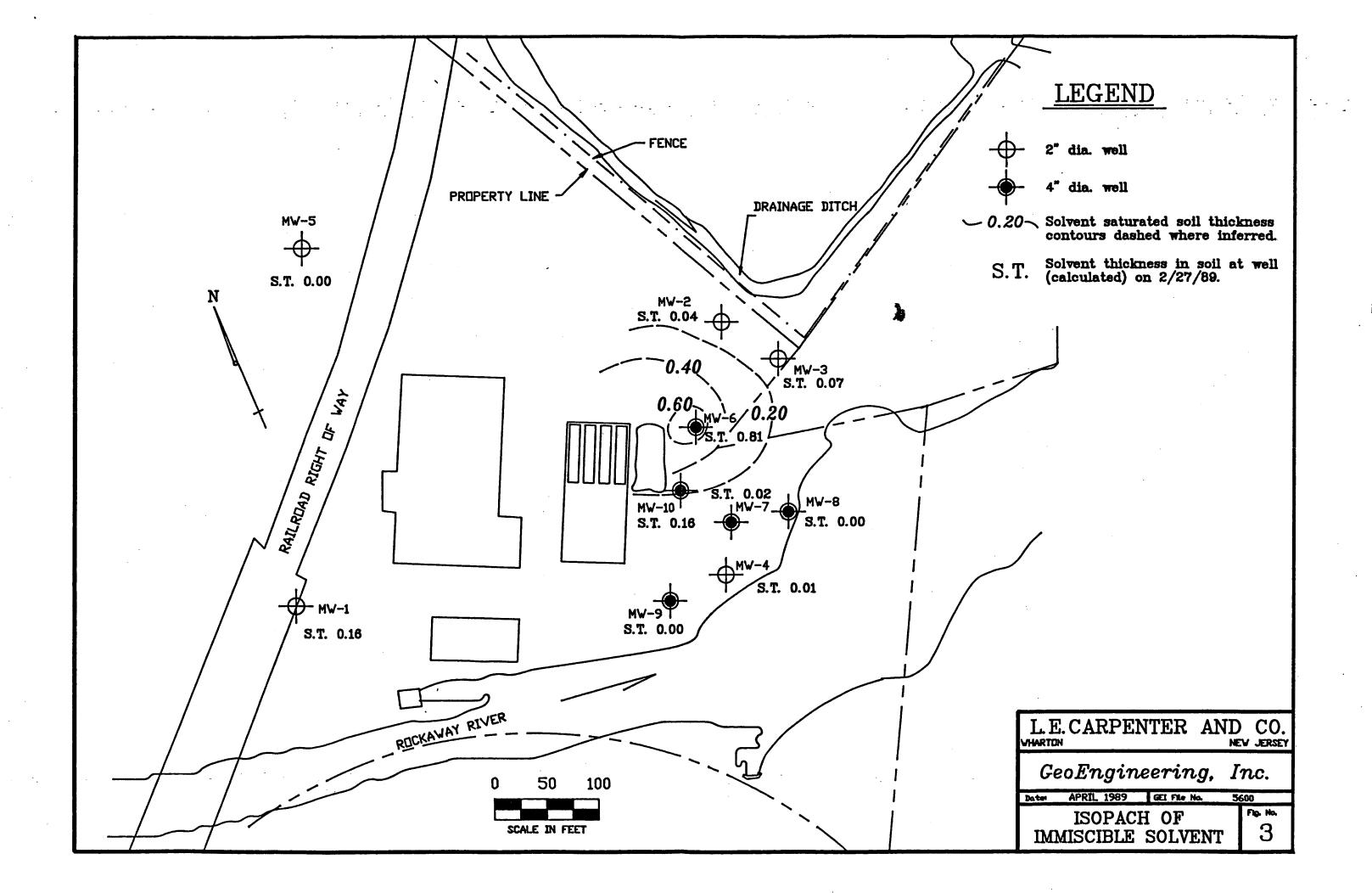


TABLE A: SOLVENT THICKNESS AND PIEZOMETRIC EVELATIONS ON 3/16/89

		MEASURED SOLVENT					
	PIEZOMETRIC		FLOATING SOLVENT	THICKNESS IN	CALCULATED FLOATING		
WELL NO.	SURFACE ELEVATION (feet above MSL)		SURFACE ELEVATION (feet above MSL)	MONITORING WELL (feet)	SOLVENT THICKNESS (feet)		
					•		
1	86.9	(1)	87.3	1.45	0.22		
2	86.9	(1)	87.2	0.16	0.02		
3	87.1	(1)	86.8	1.60	0.24		
4	86.6	(1)	87.2	0.30	0.04		
5	87.0	(1)	no solvent	0.00	0.00		
6	89.3	(2)	87.7	10.91	1.63		
7	89.5	(2)	88.1	9.28	1.39		
8 .	87.8		no solvent	0.00	0.00		
9	87.7		no solvent	0.00	0.00		
10	87.2		87.1	1.00	0.15		
DRAINAGE DITCH	90.6			•			
RIVER PT. 1	90.1						
RIVER PT. 2	88.1				•		
RIVER PT. 3	86.5						

N O T E S: (1) Depth to water measured inside GEOMON Groundwater Sampler/Piezometer (inlet screen is below solvent level)

<sup>(2)</sup> Calculated piezometric surface, assuming solvent specific gravity is 0.87.

<sup>(3)</sup> No solvent observed in monitoring well

